

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for transmitting media packets, comprising:
 - receiving media packets in a first order; [[and]]
 - selecting a schedule adapter from a plurality of selectable schedule adapters for reordering said media packets into transmitting said media packets in a second order, wherein said second order is selected according to loss characteristics of a downstream channel, and wherein said second order results in reduced distortion with respect to a predicted distortion from said first order; and
 - transmitting said media packets in said second order.
2. (Original) The method of Claim 1 wherein media packet losses resulting from said second order is in a pattern of isolated losses.
3. (Original) The method of Claim 1 further comprising storing said media packets in said first order prior to said transmitting.
4. (Currently Amended) The method of Claim 1 further comprising determining said second order by [[a]] said schedule adapter.
- 5 (Currently Amended) The system as described in Claim [[4]] 1 wherein said schedule adapter is an interleaver.
6. (Currently Amended) The system as described in Claim [[4]] 1 wherein said schedule adapter is a packet scheduler, said packet scheduler being computer-readable code, said code programmable to perform as an interleaver.
7. (Cancelled).

8. (Currently Amended) The method of Claim ~~[[7]]~~ 1 further comprising:
predicting for each of said plurality of selectable schedule adapters a corresponding amount of distortion; and
selecting one of said plurality of selectable schedule adapters according to said predicted distortion.

9. (Original) The method of Claim 1 further comprising estimating said loss characteristics from channel characteristics data received from a downstream device.

10. (Original) The method of Claim 9 wherein said downstream device sends, in real-time, said channel characteristics data corresponding to each packet received, back to a sender system.

11. (Original) The method of Claim 9 wherein said downstream device accumulates said channel characteristics data for sending at a predetermined interval.

12. (Original) The method of Claim 9 wherein said loss characteristics are selected from a group consisting essentially of:

time between losses;
number of isolated packet losses;
number of sequential packet losses;
end-to-end delay for each packet;
number of said media packets lost in each of said sequential packet losses;
packets received/lost pattern; and
time of receipt of each packet.

13. (Original) The method of Claim 12 further comprising predicting distortion produced from various of said loss characteristics in combination with various schedule adapter configurations and storing said predicted distortion results as basis for future selecting of said second order for minimizing said distortion.

14. (Currently Amended) The method of Claim 1 wherein said selecting said schedule adapter ~~second order~~ is by an interleaver selector.

15. (Currently Amended) The method of Claim 1 wherein said selecting said schedule adapter ~~second order~~ is by a switch and wherein said switch transmits said media packets alternately among a plurality of downstream channels.

16. (Currently Amended) A schedule adapter for receiving media packets in a first order and for reordering and transmitting said media packets in a second order wherein said ~~second order~~ schedule adapter is selected from a plurality of schedule adapters to reduce distortion with respect to said first order based on estimated channel characteristics and wherein for each of said plurality of selectable schedule adapters, a corresponding amount of distortion is predicted and one of said plurality of selectable schedule adapters is selected according to a predicted distortion based on said estimated channel characteristics.

17. (Original) The schedule adapter as described in Claim 16 wherein said media packets are stored prior to transmitting.

18. (Original) The schedule adapter as described in Claim 16 wherein said second order is determined by an interleaver.

19. (Original) The schedule adapter as described in Claim 16 wherein said second order is determined by a packet scheduler, said packet

scheduler being computer-readable code, said code programmable to perform as an interleaver.

20. (Cancelled).

21. (Cancelled).

22. (Original) The schedule adapter as described in Claim 16 wherein said channel characteristics are estimated from channel characteristics data received from a downstream device.

23. (Original) The schedule adapter as described in Claim 22 wherein said downstream device sends, in real-time, said channel characteristics data corresponding to each packet received, back to said system.

24. (Original) The schedule adapter as described in Claim 22 wherein said downstream device accumulates said channel characteristics data for sending at a predetermined interval.

25. (Original) The schedule adapter of Claim 16 wherein said second order is selected by an interleaver selector.

26. (Original) The schedule adapter of Claim 16 wherein said second order is selected by a switch and wherein said switch transmits said media packets alternately among a plurality of downstream channels.

27. (Original) The schedule adapter of Claim 16 wherein distortion produced from various of said loss characteristics in combination with various interleaver configurations is predicted and said predicted distortion results are stored as basis for future selecting of said second order for minimizing said distortion.

28. (Cancelled).

29. (Currently Amended) A computer-usable medium having computer-readable code embodied therein for causing a computer system to perform a method of converting burst losses of media packets in a second order into isolated losses in relation to a first order of media packets in a media transmission, comprising:

receiving encoded media packets in said first order; ~~[[and]]~~

selecting a schedule adapter from a plurality of schedule adapters for reordering said media packets into ~~transmitting said media packets in~~ said second order that is selected according to loss characteristics of a downstream channel; and

transmitting said media packets in said second order.

30. (Original) The computer-usable medium as described in Claim 29 wherein said media packets are stored prior to transmitting.

31. (Currently Amended) The computer-usable medium as described in Claim 29 wherein said second order is determined by ~~[[a]]~~ said schedule adapter.

32 (Currently Amended) The computer-usable medium as described in Claim ~~[[31]]~~ 29 wherein said schedule adapter is an interleaver.

33. (Currently Amended) The computer-usable medium as described in Claim ~~[[31]]~~ 29 wherein said schedule adapter is a packet scheduler, said packet scheduler being computer-readable code, said code programmable to perform as an interleaver.

34. (Cancelled).

35. (Currently Amended) The computer-usable medium of Claim [[34]] 29 wherein, for each of said plurality of selectable schedule adapters, a corresponding amount of distortion is predicted and one of said plurality of selectable schedule adapters is selected according to said predicted distortion.

36. (Original) The computer-usable medium as described in Claim 29 wherein said loss characteristics are estimated from channel characteristics data received from a downstream device.

37. (Original) The computer-usable medium as described in Claim 36 wherein said downstream device sends, in real-time, said channel characteristics data corresponding to each packet received, back to said system.

38. (Original) The computer-usable medium as described in Claim 36 wherein said downstream device accumulates said channel characteristics data for sending at a predetermined interval.

39. (Original) The computer-usable medium as described in Claim 36 wherein said loss characteristics are chosen from a group consisting essentially of:

- time between losses;
- number of isolated packet losses;
- number of sequential packet losses;
- end-to-end delay for each packet;
- number of said media packets lost in each of said sequential packet losses;
- packets received/lost pattern; and
- time of receipt of each packet.

40. (Original) The computer-usable medium of Claim 39 wherein distortion produced from various of said loss characteristics in combination with various interleaver configurations is predicted and said predicted distortion results are stored as basis for future selecting of said second order for minimizing said distortion.

41. (Currently Amended) The computer-usable medium of Claim 29 wherein said schedule adapter ~~second order~~ is selected by an interleaver selector.

42. (Currently Amended) The computer-usable medium of Claim 29 wherein said schedule adapter ~~second order~~ is selected by a switch and wherein said switch transmits said media packets alternately among a plurality of downstream channels.